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		\$			IB No. 349/63 4 December 1963 Copy
	MEMORANDUM FOR:	Chief, Manu	facturing an	d Services Divis	ion, ORR
25X1A	ATTENTION :		,	MS/D	
	THROUGH	Chief, Requ	irements Bra	nch, Reconnaissa	nce Group, CGS
`	FROM :	Chief, CIA/	PID (NPIC)		
	SUBJECT :	Shen-yang A	rsenal Compl	ex	
	REFERENCE :		quirement No D Project No		25X 25X1
	asks for an ana of current acti	lysis of arse vity and expa	nals at Shen nsion since[-yang, China, in	d requirement which cluding the level
0	and four instai	lations have nitions. Fol	been located lowing is a	and identified detailed analysi	nity was analyzed as being arsenals s of these installation 25X1D
25X1A 25X1D	3. The Sh	en-yang Arsen	al 90th 🚺	·	25X
25X1A 25X1C	ORR;	, dated	24 May 1963 cover ant, is encl	ing this install	ry-Economics Division ation, plus the argements from Missions
25X1D	CIA/PID/IB-P-78 the copy memo. and are referre	6/63 is from The changes d to in two p le copy memo r	and in construct laces in the	has been annotation between the copy memo. The	The enclosure ed to correspond with missions were sligh Key to Annotations ations on enclosed
25X1			er.		

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SUBJECT: Shen-yang Arsenal Complex

25X1

- No. 3 Engine test building same structure as annotation A of enclosed graphic.
 - No. 4 Same as annotation B of enclosed graphic.

25X1D

The Key to Annotations at the top of page 7 of the copy memo refers to items on which can be cross referenced to the enclosed graphic.

No. 5 Test cell building - same as annotation D on enclosed graphic.

No. 6 Power plant - same as annotation 25 on enclosed graphic.

25X1D

No. 7 Dismantled MIG-19 is new on

The small amounts of raw material, paucity of vehicles and rail cars, and lack of smoke being emitted from stacks and vents indicates a low level of plant activity in

4. The shell loading plant (See enclosure CIA/PID/IB-P-787/63), is located just east of the Shen-yang Arsenal 90th. Facilities at this plant include one fabrication bifilding, numerous revetted and unrevetted production and storage buildings, and two boiler houses. See enclosure CIA/PID/IB-P-787/63 for detailed analysis. Such facilities can be used for shell loading and storage. The housed test range (approximately 300 meters long) also is indicative of shell loading.

This plant is only served by road. Production activity may be stopped, or at the most, very low, as no smoke is being emitted from the boiler house stacks and no vehicles or personnel can be observed. However, the plant appears to be well maintained and there is coal stored by at least one of the boiler houses.

5. The probable ammunition loading facility (See enclosure CIA/PID/IB-P-788/63), is located at the southeast end of the Shen-yang Southeast Airfield which is adjacent to the Shen-yang Arsenal 90th.

This plant is secured by a solid wall and is served only by road. The exact function cannot be determined; however, some buildings are revetted and others are surrounded by a heavy barrier of trees giving the impression that explosives are being handled or stored. The boiler house is not in operation, no vehicles or personnel can be observed and the road system within the plant does not appear to have been used recently or at least only to a very limited degree which indicated that the plant is shut down or operating at a very low level. See enclosure CIA/PID/IB-P-788/63 for detailed analysis.

	TOP STOTE
	SUBJECT: Shen-yang Arsenal Complex
	25X1A
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25X1D	6. The Wen-kuan-tun Sub arsenal, Mukden 90th (
	is located 4.8 nautical miles north northeast of the old walled city of Shen-yang at 41 52N - 123 29E. The plant is secured by a solid wall and is served by both rail and road. This integrated plant produces initiators, boasters, bursting powder as well as artillery projectiles. See enclosure CIA/PID/IB-P-789/63 for
	analysis of plant facilities. Lead azide is probably the initiator produced and black powder the bursting charge. The manufacturing section (6) contains foundries where projectiles are cast and numerous machine shops where the external and internal surfaces of the projectile are machined.
	Vehicles and rail cars were observed in the plant area, smoke was being emitted by several stacks and crated goods were stored in the open which indicates that the plant is currently active.
~ **	The total roof cover of the production buildings, exclusive of explosive manufacturing, is 421,780 square feet. Production buildings pertaining to explosive manufacturing total an additional 203,445 square feet.
	•
	7. The photo analyst assigned to this project was 25X1A
	who may be contacted on should you have further questions 25X7 concerning this project. This memorandum and its enclosures completes this
	requirement.
e	
	- 1 25X1A
	ENCLOSURES:
	4 Annotated Photo Enlargements (CIA/PID/IB-P-786/63 thru P-789/63) 1 Copy of IOM (IB-92/63)

Additional changes occurred between

building (Annotation #56, Enclosure #1 and Annotation #1 Enclosure #2) and

These changes were the construction of a new

25X1D

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TOP SECRET

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**	and the partial completion of two wings on the engine test building at	الله مد
	Annotation A. The unusual features at this plant are located at Annotation A,	
	Annotation B, Annotation #89 (Enclosure #1) and Annotation #1 (Enclosure #2).	•
**	The following is a description of each of the aforementioned annotations.	•
	Annotation A; this building has been identified as a test facility for an	05)/45
母 彦	unidentified engine. Construction started possibly in and the	√25X1D
-	building was approximately 90 percent complete on	25X1D
25X1D	The building is multi-winged with the base wing measuring	
	470° x 65'. There are seven projecting wings, two of which are under	
	construction and measure 85' x 30' and are probably single test bays, one	
	measures 150' x 25' and is probably a single test bay and four measure	
the second	150' x 55', three are probably double test bays and the fourth a single	
	test bay with an additional servicing area. The seven wings are served by	
	individual exhaust towers approximately 65 to 75 feet above ground level.	•
	Annotation B: this area consist of three buildings one large and two smaller	
	buildings. The large building was a former thermal electric power plant,	25X1D
	which has been converted since to house three engine test cells.	23/10
	The two smaller buildings are r but are prior to	25X1D
	one building houses a large test cell and the other is an unidentified	20/(10
, 4	building. The three buildings are connected by pipeline. Annotation #89;	ςτ. ,
	the function of this building is unknown. It is adjacent to the transformer	e .
	yard (Annotation #90) but separated by an additional fence. The building	at .
25X1D	appears to have been modified between	25X1D
23X1D	The measurements are 125' x 50' and the roof has two	
	levels with the south section being approximately 50 to 55 feet tall. This	
25X1B	tall section is rail served. Annotation #1 (Enclosure #2) This is a new	0EV4Dis
	building The foundation was started	25X1D
25X1D	(Annotation #56). The building	
	. was completed on The building measures	. 33
25X1D -	approximately 150' x 75' and is approximately 60 to 70 feet tall. Annotation	0EV4D
AT P	r#35 (Enclosure #1)	25X1B
	These objects are approximately wide, all have the same	
	configuration. Photography on	25X1D
	(Annotation #2. Enclosure #2)	
		0EV4D
EVAD		25X1D
5X1B		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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KEY TO ANNOTATIONS: SHEN-YANG ARSENAL 90TH ENCLOSURE #1

```
Assembly building Assembly building
                                              665' x 490'
  2.
                                              665' x 275'
      Assembly building
                                              360' x 330'
  4. Assembly building
5. Assembly building
6. Assembly building
                                              400' x 225'
                                              425' x 250'
                                              330' x 260'
  7. Assembly building 8. Assembly building
                                              570' x 250'
                                              440' x 130'
      Assembly building
  9. Workshop
                                              345' x 115'
 10. Workshop and storage yard 11. Possible forge or smelter
                                              305' x 115' - 270' x 130'
      Possible forge or smelter
                                              240' x 50'
 12. Workshop
                                              320' x 95'
                                                            - 85' x 80'
 13. Administration building
                                              310' x 60'
                                                           - 70' x 25' - 70! x 25'
      Workshop and machine shop
 14.
                                              210' x 175'
 15.
      Workshop
                                              210' x 75'
                                              215' x 135"
 16. Machine shop and Workshop
      Machine shop and Workshop
 17.
                                              320' x 135'
 18. Machine shop
                                              320' x 150'
 19.
      Machine shop
                                              215' x 150'
                                             240' x 135'
175' x 85'
240' x 150'
 20.
      Machine shop
 21.
      Machine shop
      Storage building
 22.
23. Machine shop
                                             240' x 135'
345' x 135'
24.
      Machine shop
25.
      Storage building
                                              160' x 90'
26.
      Storage building
                                             110' x 80'
150' x 120'
27.
      Machine shop
28. Storage building
                                             140' x 120'
29.
      Storage building
                                             145' x 105'
      U/I building
30.
                                             95' x 90'
      U/I building
31.
                                             160' x 65'
32.
      Workshop
                                             240' x 65'
      Storage building
33•
                                             220' x 75'
34.
     Machine shop
                                             205' x 125'
35•
      Workshop
                                             205' x 65'
36.
     Machine shop
                                             220' x 150!
37. Possible forge
                                             240' x 85'
38.
     Administration building
                                             150' x 35'
39•
     Workshop
                                             200' x 85'
40.
     Boiler house and coal stockpile
                                             120' x 95'
41.
     Machine shop
                                             170' x 50'
42.
     Machine shop
                                             160' x 50'
43.
     Three administration buildings
44.
     Administration and possible laboratory buildings
45.
     Possible laboratory buildings
```

XERO 3

25X1

TOP SECRET

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XERO

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46.
     Five unidentified service buildings
47.
     Administration building
                                              95' x 55'
                                             370' x 40'
200' x 70'
48.
     Administration and security building
49.
     Motor vehicle storage and repair shed
50.
                                              70' x 15' each
     Fifteen fenced storage buildings
     Storage building
51.
                                              175' x 150'
52.
     Power Plant and coal stockpile
     Workshop 🐐
                                              135', x 50'
53.
                                              225' x 105'
54.
     Workshop
                                              340' x 105'
     Workshop
55.
56.
     Foundation for new building
                                              200' x 40'
57.
     Storage building
58.
     Storage buildings
     Storage buildings
59.
     Security buildings and guard quarters
60.
                                              195' x 130' - 150' x 75
     Workshop and Machine shop
61.
62.
     Gantry crane
                                              135' x 40'
63.
     Storage building
64.
     Storage buildings
                                              2251 x 401
65.
     Storage building
     Underground POL reservoir, pumping and control station
66.
67.
     Seven storage buildings
68.
     Three warehouses
69.
     Unidentified building, within a secured area
     Two large and two small warehouses
70.
71.
     Two workshops
72.
     Maintance shops and storage buildings
                                              350' 🗷 80'
73.
     Warehouse
                                              65' x 30'
74.
     Storage building
75.
     Two large warehouses
76.
     Five warehouses
     Six storage sheds and two large warehouses
77.
78.
     Two warehouses and four storage sheds
     Two warehouses and one unidentified building
79•
80.
     Four warehouses
81.
     Open storage yard and two gantry cranes
     Gantry crane and possible shipping and receiving building
82.
83.
     Five warehouses .
84.
     Four warehouses
     Administration and six unidentified service buildings
85.
86.
     Three water reservoirs
     Administration building and storage buildings
87.
8å.
     Four unidentified objects on flatcars
                                              125' x 50'
89.
     Possible test building
     Transformer yard
```

25X1

• •	•	TOP SECRET	25X1
· · · · · · · · · · · · · · · · · · ·		IB 92/63 • Page 5	•
	A. B.	Test building Test Area, three buildings	
	KEY	TO ANNOTATIONS: SHEN-YANG ARSENAL 90th ENCLOSURE #2	
25X1	1. D.	New building, function unknown, 150' x 75' by approximately 60-70 feet tall. Erected between Foundation started	25 <u>X</u> 1D
25X1D 25X1I		Unidentified objects, one the same as shown on and Construction started possibly in Former thermal electric power plant converted to test cell building prior	25X1D 25X1D 25X1D
25 <u>&</u> 11	ט	to	
			-
(•)			25X1D
25X1D	ine	Shen-Yang Aircraft Engine Plant is located in the Ta Tung ward of a-Yang adjacent to Shen-Yang Arsenal 90th and Shen-Yang Airfield Scutheast. coordinates are The plant area is enclosed by a parry wall approximately high. The Engine Plant is served by the	
(3)	same	e rail line which serves the arsenal. This study was conducted from the photography utilized in the study of Shen-Yang Arsenal. The Engine Plant a total estimated floor space of 955, 475 square feet. All buildings	
	were beer	e included in the total estimated floor space, only the major buildings have a annotated. This plant was rehabilitated between A comparate between shows the construction of	25X1D
	thre	ee new buildings which are indicated by the red stars (Enclosure #1). The dings located at Annotations #1 and #3 were constructed prior to	25X1
25X1D		. The power plant located at annotation #25 under construction on and was about 50 percent complete	23/1
25X1D	the	rinal stages of completion. The Engine test building at Annotation D	
25X1D	cont is u	rains six test cells. The test cell on the northern end of the building indergoing modification description of the building	
25X1D	cell	appears to be a possible cleared blast area, in the rear of the test mentioned above (Annotation #5 Enclosure #2). This construction and fication activity was in an early stage	•
•	-		

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25X1

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KEY TO ANNOTATIONS: SHEN-YANG AIRCRAFT ENGINE PLANT ENCLOSURE #1

```
250' x 110'
     Storage building
     Workshop and storage
                                           360' x 185'
                                           180' x 70'
 3.
    Storage building
                                           325' x 200'
 4.
     Assembly and machine shop
                                           170' x 145'
189' x 185'
     Machine shop and workshop
    Foundry
Boiler bouse
 6.
                                          135' x 55'
 7.
                                           265' x 65'
 ė.
     Administration building
9. Storage building 10. Assembly building
                                          1801 x 451
                                           530' x 220'
11. Assembly and Machine shop
12. Assembly building
                                           580' x 170'
                                           300' x 160'
170' x 115'
     Workshops
13.
     Storage buildings
                                           80' x 60' - 70' x 55'
                                          250' x 170'
200' x 45'
15.
    Assembly building
16. Storage building
                                           230' x 55'
17. Administration
                                                       - 200' x 40' - 100' x 40'
                                           100' x 40'
18.
     Maintance shops
                                           100' x 30'
                                           150' x 55'
19. Storage building
20.
     Administration building
21.
     Storage building
22. Administration buildings
23.
     Administration buildings
24.
     Two warehouses
25.
     Power plant under construction
26.
     Four warehouses
                                           165' x 110'
230' x 100'
27.
     Machine shop
     Workshop
28.
                                           135' x 135'
29.
    Workshop
                                           100' x 35'
     Storage building
30.
     Storage building
                                           85' x 40'
31.
32.
                                           150' x 45'
     Warehouse
     Underground POL reservoir, pumping and control station
33.
34.
     Three large warehouses and two storage sheds
35.
     Boiler house
                                          130' x 50'
     Test Cell building
 D.
 E. Additional Administration area
     Shen-Yang Airfield southeast and support area
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25X1D

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			•			IB 92/63 Page 7	
KEY	TO ANNOTA	ATIONS: SHEN	-YANG AIRCR	AFT ENGINE PI	ANT ENCLOSU	RE #2	-
1D 5.			one test ce	ll modified a	ınd a possib	le blast area	
1D 6	٠.	ed between ent - constru	ction began		approximate	ly 50 percent	•
עוא						•	
7 •	Dismantle	ed Mig-19 and	Shen-Yang	Airfield Sout	cheast repai:	r facilities.	
	5. Summ	narv			`.	*:	ę
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25X1D	7. The	photo analys	ssions and	roject is	included i	to illustrate n this study: who may s regarding the	, , _{be} 25
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